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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/596,359	06/09/2006	Hajime Kando	36856.1450	5636
	7590 10/28/200 NUFACTURING CON	EXAMINER		
C/O KEATING & BENNETT, LLP			ROSENAU, DEREK JOHN	
1800 Alexander Bell Drive SUITE 200			ART UNIT	PAPER NUMBER
Reston, VA 201	191	2834		
			NOTIFICATION DATE	DELIVERY MODE
			10/28/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/596,359	KANDO, HAJIME		
Examiner	Art Unit		
Derek J. Rosenau	2834		

	Derek J. Rosenau	2834	
The MAILING DATE of this communication appe	ars on the cover sheet with the o	correspondence addi	ess
THE REPLY FILED 10 October 2008 FAILS TO PLACE THIS A	PPLICATION IN CONDITION FOR	R ALLOWANCE.	
1. The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Appelor Continued Examination (RCE) in compliance with 37 Coperiods:	the same day as filing a Notice of A replies: (1) an amendment, affidavited al (with appeal fee) in compliance	Appeal. To avoid aban t, or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request
a) The period for reply expires <u>3</u> months from the mailing date	of the final rejection.		
b) The period for reply expires on: (1) the mailing date of this Anno event, however, will the statutory period for reply expire la Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f	ater than SIX MONTHS from the mailing b). ONLY CHECK BOX (b) WHEN THE ').	g date of the final rejectio FIRST REPLY WAS FIL	n. .ED WITHIN TWO
Extensions of time may be obtained under 37 CFR 1.136(a). The date of have been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	ension and the corresponding amount of hortened statutory period for reply original controls.	of the fee. The appropria nally set in the final Office	te extension fee e action; or (2) as
 The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed with the properties. 	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of the	
AMENDMENTS	t maio a to the plate of filing a baid	عط لمصمعهم مطاعم النب	
3. The proposed amendment(s) filed after a final rejection, be (a) They raise new issues that would require further core (b) They raise the issue of new matter (see NOTE below (c) They are not deemed to place the application in better.	nsideration and/or search (see NOT w);	E below);	
appeal; and/or (d) ☐ They present additional claims without canceling a c	corresponding number of finally reje	ected claims.	
NOTE: <u>See Continuation Sheet</u> . (See 37 CFR 1.1)			
4. The amendments are not in compliance with 37 CFR 1.12		mpliant Amendment (F	PTOL-324).
Applicant's reply has overcome the following rejection(s):			
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 	·	•	-
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is proved the status of the claim(s) is (or will be) as follows: Claim(s) allowed:		be entered and an ex	xplanation of
Claim(s) objected to: Claim(s) rejected: <u>23-42</u> .			
Claim(s) withdrawn from consideration:			
AFFIDAVIT OR OTHER EVIDENCE	. h - f - u - u - u - th - d - t f filing N	tion of Ammont will mak	ha antawad
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 			
 The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to of showing a good and sufficient reasons why it is necessary 	vercome <u>all</u> rejections under appea and was not earlier presented. Se	ıl and/or appellant fails ee 37 CFR 41.33(d)(1)	s to provide a
10. ☐ The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	n of the status of the claims after er	ntry is below or attache	ed.
 The request for reconsideration has been considered but <u>See Continuation Sheet.</u> 	does NOT place the application in	condition for allowand	ce because:
12. Note the attached Information <i>Disclosure Statement</i> (s). (13. Other:	PTO/SB/08) Paper No(s)		
/Quyen P Leung/			
Supervisory Patent Examiner, Art Unit 2834			

Continuation of 3. NOTE: the newly presented claims contain subject matter that has not been previously considered, and would require further search and/or consideration.

Continuation of 11. does NOT place the application in condition for allowance because: Applicant's arguments field 10 October 2008 have been fully considered, but they are not persuasive. Applicant argues that none of Itakura et al., Taniguchi, Takayama et al., and Nakahata et al. discloses boundary acoustic wave devices. However, both Itakura et al. and Nakahata et al. disclose boundary acoustic wave devices, as can be seen in figure 1 of Itakura et al. and at least figure 40 of Nakahata et al. Applicant argues that Takayama et al. does not disclose that "a thickness of the electrodes is set so that the acoustic velocity of an SH type boundary acoustic wave is lower than the acoustic velocity of a slow transverse wave propagating through the solid layer and the acoustic velocity of a slow transverse wave propagating through the piezoelectric single crystal substrate" However, this is simply functional language, which is not what Takayama was cited for. Takayama was cited for its teaching of electrode thickness, which in combination with Itakura et al. and Taniguchi, results in a device having each of the claimed structural elements. As this combination has each of the claimed structural elements, the structure resulting from the combination would be capable of the same functions as the claimed structure. Applicant argues that the device of Itakura et al. is a surface acoustic wave device, and that it is not a boundary acoustic wave device, saying that the silicon dioxide layer provided over the electrodes does not make the device a boundary acoustic wave device. However, a device may be both a surface acoustic wave device and a boundary acoustic wave device. The device of Itakura et al. generates a surface acoustic wave along the boundary between the zinc oxide layer and the silicon dioxide layer; therefore, the device of Itakura et al. is a boundary acoustic wave device. Applicant argues that because Takayama et al. discloses only a surface acoustic wave device and does not disclose that "the acoustic velocity of an SH type boundary acoustic wave is lower than the acoustic velocity of a slow transverse wave propagating through the piezoelectric single crystal substrate". However, it is Itakura et al. that teaches a boundary acoustic wave device, and Takayama that teaches the electrode thickness that, in combination with Itakura et al., would result in the claimed functional limitations. Applicant argues that Taniguchi does not disclose that "H>8261.744p^(-1.376), when p represents the density of the electrodes, H(lambda) represents the thickness of the electrodes, and lambda represents the wavelength of a boundary wave", arguing that lambda can not simply be chosen arbitrarily, as the wavelength of a given acoustic wave device is determined based on the characteristics of the IDT electrodes. However, the claim language does not contain any limitation directed to the characteristics of the IDT electrodes or the wavelength of the device; therefore, as the combination of Itakura et al., Taniquchi, and Takayama et al. discloses each of the claimed structural elements, the structure resulting from that combination would have the same properties. Applicant argues that there would be no reason or motivation to combine the teachings of Nakahata et al. with the device of Itakura et al. as modified by Taniguchi and Takayama et al., arguing that the acoustic velocity of 8000 m/s is not a result of the crystalline orientation. However, it would be obvious to combine the teachings of Nakahata et al. for the benefit of improved coupling coefficient (column 2, lines 29-42). In addition, it has been held that optimization by routine experimentation would be obvious to a person of ordinary skill in the art (In re Aller, 105 USPQ 233). As the Euler angles of the lithium niobate crystals can be chosen by routine experimentation, it would be obvious to a person of ordinary skill in the art to select a crystal having Euler angles that yield the desired properties.